

National Technical Reports Library

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PB2012102519

Nation's Report Card: Findings in Brief Reading and Mathematics 2011. National Assessment of Educational Progress at Grades 4 and 8. National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 16p
NCES 2012-459

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Reading, Mathematics, Academic achievements.

PB2012100718

Building the Twenty First Century: U.S-China Cooperation on Science, Technology, and Innovation. Summary of a Symposium. National Research Council, Washington, DC. Board on Science, Technology, and Economic Policy. 2011, 217p

Related Categories/Sub-Categories:

92E (International Relations)

92D (Education, Law, & Humanities)

70E (Research Program Administration & Technology Transfer)

41P (Research Program Administration & Technology Transfer)

96 (Business & Economics)

Keywords: Technology innovation, International cooperation, Universities.

Mathematics and Science Education



N20110016091

National Partnership-Based Summer Learning Initiative to Engage Underrepresented Students with Science, Technology, Engineering and Mathematics.

National Aeronautics and Space Administration, Washington, DC.

2011, 14p

IAC-11-E1.5.9

HQ-STI-11-161

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

92C (Social Concerns)

84 (Space Technology)

Keywords: Students, Education, NASA programs,

PB2012100797

Research Training in the Biomedical, Behavioral, and Clinical Research Sciences.

National Research Council, Washington, DC. Committee on a Study of National Needs for Biomedical, Behavioral, and Clinical Research Personnel.

2011, 206p

ISBN-13-978-0-309-15966-1

LCCN-2011921184

Related Categories/Sub-Categories:

57E (Clinical Medicine)

44P (Health Education & Manpower Training)

70E (Research Program Administration & Technology Transfer)

92D (Education, Law, & Humanities)

92A (Job Training & Career Development)

Keywords: Biomedical research, Behavioral sciences, Personnel development.

PB2012102141

Middle School Mathematics Professional Development Impact Study. Findings After the Second Year of Implementation.

Department of Education, Washington, DC. Inst. of Education Sciences.

2011, 205p

NCES 2011-4024

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Professional development, Teachers, Mathematics education.

Newsletter

National Technical Reports Library

Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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U.S. Department of Commerce
5301 Shawnee Road
Alexandria, VA 22312



PB2012102518

Nation's Report Card: Mathematics 2011. National Assessment of Educational Progress at Grades 4 and 8.

National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 97p
 NCEES 2012-458
 See also PB2010-101338.

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Students, Mathematics, Academic achievements.

PB2011104697

Nation's Report Card: Science 2009. National Assessment of Educational Progress at Grades 4, 8, and 12.

National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 82p
 NCEES-2011-451

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Science education, Statistics, Achievement tests.

PB2011112381

Achievement Gaps: How Hispanic and White Students in Public Schools Perform in Mathematics and Reading on the National Assessment of Educational Progress. Statistical Analysis Report.

National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 95p
 NCEES 2011-459

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Academic achievement, Mathematics, Student achievement.

PB2011110213

Characteristics of Science and Engineering Doctorate Recipients: Selected Trend Tables 1993, 1995, and 1997.

National Science Foundation, Washington, DC. Div. of Science Resources Studies. 2011, 91p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Doctorates, Scientists, Engineers.

PB2011112829

Successful K-12 Stem Education: Identifying Effective Approaches in Science, Technology, Engineering, and Mathematics.

National Research Council, Washington, DC. Commission on Behavioral and Social Sciences and Education. 2011, 44p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Early childhood education, Science education, Mathematics.

PB2011106371

Nation's Report Card: Science 2009. Trial Urban District Assessment Results at Grades 4 and 8. National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 87p
 NCEES 2011-452

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Science education, Statistics, Achievement tests.

PB2012102686

Nation's Report Card: Mathematics, 2011. Trial Urban District Assessment Result at Grades 4 and 8.

National Center for Education Statistics, Washington, DC. 2011, 130p
 NCEES 2012-452

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Public schools, Academic achievements, National Assessment of Educational Progress (NAEP).

PB2012104184

Graduate Students and Postdoctorates in Science and Engineering: Fall 2009. Detailed Statistical Tables.

National Science Foundation, Arlington, VA. Directorate for Social, Behavioral, and Economic Sciences. 2011, 299p
 NSF-12-300

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
 43C (Human Resources)
Keywords: Universities, Sciences, Statistical data.

FEDERAL LABORATORY CONSORTIUM FOR TECHNOLOGY TRANSFER



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www.federallabs.org

PB2011111600

High School Longitudinal Study of 2009 (HSL:09). First Look at Fall 2009 Ninth-Graders.

RTI International, Research Triangle Park, NC. National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2011, 54p
 NCEES-2011-327

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Educational assessment, Academic achievement, High schools.

N20110008559

National Council for Community and Education Partnerships Presentation.

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center. 2011, 18p
 KSC-2011-035

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Students, Engineers, Scientists.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- NTIS Order Number
- Title
- Source
- Report Year, Page Count
- Report Number/ISBN13 (if available)
- Related Categories/Sub-categories (where the document is also indexed)
- Keywords

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.



“ Very often the work described in these [early NTIS] reports was never published in the open journal literature, or published only in a very condensed form. I have repeatedly found that information in these documents gave important inspiration for my new research, or , in some cases, preventing me from “re-inventing the wheel.” ...NTIS provides a valuable service.

”

- Univ. of Colorado Engineering Professor

Major Subject Categories

Category Codes*/Title	New for February Quantity**
41 Manufacturing Technology	30
43 Problem Solving Information for State & Local Governments.....	347
44 Health Care.....	178
45 Communication	47
46 Physics.....	198
47 Ocean Sciences & Technology.....	91
48 Natural Resources & Earth Sciences	368
49 Electrotechnology	48
50 Civil Engineering.....	92
51 Aeronautics & Aerodynamics	32
54 Astronomy & Astrophysics.....	79
55 Atmospheric Sciences.....	89
57 Medicine & Biology	454
62 Computers, Control & Information Theory.....	103
63 Detection & Countermeasures.....	31
68 Environmental Pollution & Control	344
70 Administration & Management.....	331
71 Materials Sciences.....	109
72 Mathematical Sciences.....	33
74 Military Sciences	16
75 Missile Technology	0
76 Navigation, Guidance, & Control	3
77 Nuclear Science & Technology	111
79 Ordnance.....	19
81 Combustion, Engines, & Propellants.....	27
82 Photography & Recording Devices.....	14
84 Space Technology	93
85 Transportation	158
88 Library & Information Sciences.....	26
89 Building Industry Technology.....	42
90 Government Inventions for Licensing.....	0
91 Urban & Regional Technology & Development.....	370
92 Behavior & Society.....	301
94 Industrial & Mechanical Engineering	31
95 Biomedical Technology & Human Factors Engineering.....	24
96 Business & Economics.....	283
97 Energy	221
98 Agriculture & Food	166
99 Chemistry.....	54

* For a listing of Scope Notes that defines the specific topical content for each category, go to <http://www.ntis.gov/pdf/scopenotes.pdf>

** Quantities represent each new report assigned on average to 3-5 categories.

PB2011113933

Expanding Underrepresented Minority Participation: America's Science and Technology Talent at the Crossroads.
National Academy of Sciences, Washington, DC.
Committee on Science, Engineering, and Public Policy.
National Academy of Engineering, Washington, DC.
Institute of Medicine, Washington, DC.
2011, 286p
ISBN-13-978-0-309-15969-2
ISBN-10-0-309-15969-5

Related Categories/Sub-Categories:

70D (Personnel Management, Labor Relations & Manpower Studies)
92C (Social Concerns)
92D (Education, Law, & Humanities)
Keywords: Science and technology, Workforce, Minorities.

PB2011109602

Promising Practices in Undergraduate Science, Technology, Engineering, and Mathematics Education: Summary of Two Workshops.
National Academy of Sciences-National Research Council, Washington, DC.
2011, 96p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
70E (Research Program Administration & Technology Transfer)
Keywords: Undergraduates, Curricula, Mathematics.

ADA534871

Department of Defense Science, Technology, Engineering, and Mathematics (STEM) Education Workshop on Computing Education.
Deputy Director of Defense Research and Engineering, Washington, DC.
2010, 40p

Related Categories/Sub-Categories:

74 (Military Sciences)
92D (Education, Law, & Humanities)
62B (Computer Software)
Keywords: Department of Defense, Computer programs, Schools.

Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

ADA535389

Junior Solar Sprint: Securing Students' Enthusiasm for Science and Engineering.

Northeast Sustainable Energy Association, Greenfield, MA.

2010, 76p
ARO-57862-EL.1

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

971 (Electric Power Production)

85 (Transportation)

Keywords: Solar energy, Instructors, Solar cars.

N20100042409

How Mockups, a Key Engineering Tool, Help to Promote Science, Technology, Engineering, and Mathematics Education.

National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.

2010, 20p
JSC-CN-22465

Related Categories/Sub-Categories:

94 (Industrial & Mechanical Engineering)

92D (Education, Law, & Humanities)

Keywords: Science, Engineering, Mathematics.

PB2012100626

Successful STEM Education: A Workshop Summary.

National Academy of Sciences-National Research Council, Washington, DC.

2011, 94p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Science education, Technology, Schools.

PB2010111791

Science Achievement and Occupational Career/Technical Education Course-taking in High School: The Class of 2005. Statistics in Brief.

MPR Associates, Inc., Washington, DC. National Center for Education Statistics, Washington, DC.

2010, 16p
NCES-2010-021

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

43C (Human Resources)

92A (Job Training & Career Development)

Keywords: Science education, Academic achievements, High schools.

PB2010112550

National Indian Education Study, 2009. Part I. Performance of American Indian and Alaska Native Students at Grades 4 and 8 on NAEP 2009 Reading and Mathematics Assessments.

National Center for Education Statistics, Washington, DC. Institute of Education Sciences.

2010, 101p
NCES-2010-462

See also report for 2007, PB2008-110282.

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

70F (Public Administration & Government)

Keywords: Education, American Indians, Alaska Natives.

PB2010113350

AgDiscovery 2010: Investing in the Future of American Agriculture. Program Aid No. 2040.

Animal and Plant Health Inspection Service, Washington, DC.

2010, 19p

Related Categories/Sub-Categories:

98E (Animal Husbandry & Veterinary Medicine)

57F (Cytology, Genetics, & Molecular Biology)

57P (Pest Control)

92D (Education, Law, & Humanities)

92A (Job Training & Career Development)

Keywords: Outreach programs, Plant and animal science, Youth programs.

PB2010115251

Mathematics Framework for the 2011 National Assessment of Educational Progress.

Council of Chief State School Officers, Washington, DC.

National Assessment Governing Board, Washington, DC.

2010, 87p

See also PB2009-101374 (Report for 2009).

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Mathematics, Student achievements, Content areas.

Photo: Architect of the Capitol



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While you can find information on virtually any subject on the Web, there's no guarantee that the information is accurate — or that it has been published by a legitimate source. NTIS undergoes a rigorous process to ensure that all the information we offer is authentic and credible. This integrity, along with the breadth and depth of our collection, is why NTIS is regarded as the Nation's preeminent source of Government information.

PB2011100158

Standards for K-12 Engineering Education.
National Academy of Engineering, Washington, DC.
National Science Foundation, Arlington, VA.
2010, 160p
ISBN-978-0-309-16015-1

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Standards, Engineering, Education.

PB2011100926

Challenges and Opportunities for Education about Dual Use Issues in the Life Sciences.
National Research Council, Washington, DC.
Division on Earth and Life Studies.
2010, 111p

Related Categories/Sub-Categories:

57 (Medicine & Biology)
74D (Chemical, Biological, & Radiological Warfare)
70E (Research Program Administration & Technology Transfer)
92E (International Relations)
92D (Education, Law, & Humanities)
Keywords: Life sciences, Dual use research, Biological markers.

PB2011101881

Science Framework for the 2011 National Assessment of Educational Progress.
WestEd, San Francisco, CA.
National Assessment Governing Board, Washington, DC.
2010, 175p
See also PB2009-101381 (Report for 2009).

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Science education, Achievement, Curriculum.

PB2011102129

Development and Implementation of Forensic Science Research and Training Programs at the University at Albany's Northeast Regional Forensic Institute (NERFI).
National Inst. of Justice, Washington, DC. Office of Justice Programs.
2010, 255p
NCJ-232073

Related Categories/Sub-Categories:

91C (Fire Services, Law Enforcement, & Criminal Justice)
43D (Police, Fire, & Emergency Services)
92D (Education, Law, & Humanities)
Keywords: Forensic science, Training programs, Curriculum development.

PB2011102821

Grade 12 Reading and Mathematics 2009: National and Pilot State Results.
National Center for Education Statistics, Washington, DC. Institute of Education Sciences.
2010, 92p
NCES-2011-455

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
70F (Public Administration & Government)
Keywords: Mathematics, Secondary schools, Student demographic groups.

PB2011103145

Developing Effective Fractions Instruction for Kindergarten Through Eighth Grade.
Department of Education, Washington, DC. Inst. of Education Sciences.
2010, 90p
NCEE 2010-4039

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
72B (Algebra, Analysis, Geometry, & Mathematical Logic)
Keywords: Fractions (Mathematics), Instructional materials, Professional development programs.

PB2011103192

Highlights from PISA 2009: Performance of U.S. 15-Year-Old Students in Reading, Mathematics, and Science Literacy in an International Context.
Windwalker Corporation, McLean, VA.
National Center for Education Statistics, Washington, DC.
2010, 72p
NCES-2011-004
See also PB2008-104559 (Report for 2006).

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
Keywords: Student performance, Science literacy, Program for International Student Achievement (PISA).

PB2011103293

Teacher Development Continuum in the United States and China: Summary of a Workshop.
National Academy of Sciences-National Research Council, Washington, DC.
National Science Foundation, Washington, DC.
2010, 68p
ISBN-13-978-0-309-15163-4
ISBN-10-0-309-15163-5

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
92A (Job Training & Career Development)
70D (Personnel Management, Labor Relations & Manpower Studies)
Keywords: Personnel development, Teachers, Mathematics teaching.

PB2011106385

Frontiers of Engineering. Reports on Leading-Edge Engineering from the 2010 Symposium.
National Academy of Engineering, Washington, DC.
2010, 190p
ISBN-978-0-309-16362-0

Related Categories/Sub-Categories:

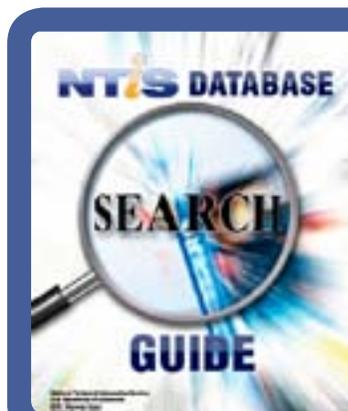
70F (Public Administration & Government)
92D (Education, Law, & Humanities)
Keywords: Research and development, Technology innovation, Science policies.

PB2011109821

Graduate Students and Postdoctorates in Science and Engineering: Fall 2007. Detailed Statistical Tables.
National Science Foundation, Arlington, VA.
Directorate for Social, Behavioral, and Economic Sciences.
2010, 277p
NSF-10-307

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
43C (Human Resources)
Keywords: Universities, Sciences, Engineering.



Just Revised: the NTIS Database Search Guide

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PB2011113360

Gender Differences at Critical Transitions in the Career of Science, Engineering and Mathematics Faculty.

National Research Council, Washington, DC. Committee on Women in Science and Engineering.
2010, 384p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
92A (Job Training & Career Development)
92C (Social Concerns)

Keywords: Gender, Scientists, Mathematicians.

N20110008686

Oh, What a Pane. An Inquiry Based on Activity with a Mathematical Approach to Investigation Windows on Earth and in Space. Teacher Guide.

National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.
2010, 41p
JSC-CN-23123

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)
84 (Space Technology)

Keywords: Instructors, Windows (Apertures), Spaceborne photography.

PB2010104414

Frontiers of Engineering. Reports on Leading-Edge Engineering from the 2009 Symposium.

National Academy of Engineering, Washington, DC.
2010, 176p

Related Categories/Sub-Categories:

70F (Public Administration & Government)
92D (Education, Law, & Humanities)

Keywords: Engineers, Research and development, Technology innovation.

PB2010109266

Achieving Dramatic School Improvement: An Exploratory Study. A Cross-site Analysis From the Evaluation of Comprehensive School Reform Program Implementation and Outcomes Study.

American Inst. for Research, Washington, DC. WestEd, San Francisco, CA.
2010, 197p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Students, Academic achievement, Mathematics education.

PB2012101092

Assessing 21st Century Skills. Summary of a Workshop.

National Research Council, Washington, DC.
2010, 154p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

92C (Social Concerns)

70D (Personnel Management, Labor Relations & Manpower Studies)

Keywords: Communication skills, Work environments, Education.

ADA488868

America COMPETES Act and the FY2009 Budget.

Congressional Research Service, Washington, DC.
2008, 30p
CRS-RL34396

Related Categories/Sub-Categories:

96 (Business & Economics)

92D (Education, Law, & Humanities)

Keywords: Education, Budgets, STEM (Science technology engineering and mathematics).

PB2012103026

Evaluation of Engineering Education Research: Emerging Issues and Promising Developments. Workshop Report.

Institute for Defense Analyses, Washington, DC. Science and Technology Policy Inst.
2008, 29p
IDA-D-3726

Related Categories/Sub-Categories:

70E (Research Program Administration & Technology Transfer)

92D (Education, Law, & Humanities)

50 (Civil Engineering)

Keywords: Education research, National Science Foundation (NSF), Engineering education.

PB2009104777

National Indian Education Study, 2007. Part I: Performance of American Indian and Alaska Native Students at Grades 4 and 8 on NAEP 2007 Reading and Mathematics Assessment.

National Center for Education Statistics, Washington, DC. Institute of Education Sciences.
2008, 92p
NCES-2008-457

See also PB2007-105666 and PB2009-104778.

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

70F (Public Administration & Government)

Keywords: American Indians, American Natives, Mathematics.

PB2007112908

Advanced Mathematics and Science Coursetaking in the Spring High School Senior Classes of 1982, 1992, and 2004. Statistical Analysis Report.

National Center for Education Statistics, Washington, DC.
2007, 148p
NCES-2007-312

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

72F (Statistical Analysis)

Keywords: Mathematics, Science, Instructional materials.

PB2006110758

Comparing Science Content in the National Assessment of Educational Progress (NAEP) 2000 and Trends in International Mathematics and Science Study (TIMSS) 2003 Assessments.

American Institutes for Research, Washington, DC.
2006, 178p

Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)

Keywords: Student performance, Science, Cognitive skills.

ADA363864

Bidirectional Transfer of DoD Technology: Assessment of Science and Technology Education Applications of DoD Modeling and Simulation Resources.

Environmental Research Inst. of Michigan, Ann Arbor.
1996, 33p

ERIM-261710-16-F/DO60

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory)

92D (Education, Law, & Humanities)

Keywords: Computer aided instruction, Training management, Military requirements.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

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PB2007112908	72	Advanced Mathematics and Science Coursetaking in the Spring High School Senior Classes of 1982, 1992, and 2004. Statistical Analysis Report.
PB2010113350	98	AgDiscovery 2010: Investing in the Future of American Agriculture. Program Aid No. 2040.
ADA488868	96	America COMPETES Act and the FY2009 Budget.
PB2012101092	70	Assessing 21st Century Skills. Summary of a Workshop.
ADA363864	62	Bidirectional Transfer of DoD Technology: Assessment of Science and Technology Education Applications of DoD Modeling and Simulation Resources.
PB2012100626	96	Building the Twenty First Century: U.S-China Cooperation on Science, Technology, and Innovation. Summary of a Symposium.
PB2011100926	57	Challenges and Opportunities for Education about Dual Use Issues in the Life Sciences.
PB2011110213	92	Characteristics of Science and Engineering Doctorate Recipients: Selected Trend Tables 1993, 1995, and 1997.
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ADA534871	74	Department of Defense Science, Technology, Engineering, and Mathematics (STEM) Education Workshop on Computing Education.
PB2011103145	72	Developing Effective Fractions Instruction for Kindergarten Through Eighth Grade.
PB2011102129	43	Development and Implementation of Forensic Science Research and Training Programs at the University at Albany's Northeast Regional Forensic Institute (NERFI).
PB2012103026	50	Evaluation of Engineering Education Research: Emerging Issues and Promising Developments. Workshop Report.
PB2011113933	70	Expanding Underrepresented Minority Participation: America's Science and Technology Talent at the Crossroads.
PB2010104414	92	Frontiers of Engineering. Reports on Leading-Edge Engineering from the 2009 Symposium.
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PB2010112550	70	National Indian Education Study, 2009. Part I. Performance of American Indian and Alaska Native Students at Grades 4 and 8 on NAEP 2009 Reading and Mathematics Assessments.
N20110016091	84	National Partnership-Based Summer Learning Initiative to Engage Underrepresented Students with Science, Technology, Engineering and Mathematics.
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